MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CH189A

Use of the preparation Inkjet printing.

Version # 02

Revision date 03-13-2009

CAS # Mixture

Synonym(s) ColorSpan 0900768-005

Company identification

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Date prepared Mar 13, 2009

MSDS number 361605

2. Hazards Identification

Acute health effects

Skin contact Contact with skin may result in irritation. Avoid contact with the skin.

Eye contact Contact with eyes may result in irritation. Avoid contact with eyes.

Inhalation May be harmful by inhalation.

Ingestion May be harmful if swallowed.

Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Diethylene glycol	111-46-6	5-10
polyethylene glycol (3%)	25322-68-3	5-10
Glycerol Ethoxylate	31694-55-0	1-5
Isothiazolone DF35	26172-55-4	0-1
Pigment	Proprietary	0-5
Styrene/Acrylic Polymer	Proprietary	0-1
Triethanolamine	102-71-6	0-1
Wetting Agent PG	Proprietary	0-1

4. First Aid Measures

First aid procedures

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.
Wash clothing separately before reuse.

Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical attention, if needed.
Ingestion	Rinse mouth out with water. Give several glasses of water. Do not induce vomiting. If symptoms persist, get medical attention.

5. Fire Fighting Measures

Flash point and method	Not flammable
Flammable properties	The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Use any media suitable for the surrounding fires.
Unusual fire and explosion hazard	The product is not flammable.
Protection of firefighters	
Protective equipment and precautions for firefighters	Wear suitable protective equipment.

6. Accidental Release Measures

Personal precautions	Avoid contact with skin. Do not touch or walk through spilled material. Use personal protective equipment to minimize exposure to skin and eye.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean up in accordance with all applicable regulations. Clean-up methods - small spillage; Flush area with flooding quantities of water.

7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Use only with adequate ventilation.
Storage	Keep out of the reach of children. Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value
Triethanolamine (102-71-6)	TWA	5 mg/m3

Personal protective equipment

General	Eye wash fountain and emergency showers are recommended.
Eye / face protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
Skin protection	Use of butyl rubber or nitrile gloves is recommended. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
Respiratory protection	Under normal conditions, respirator is not normally required. Provide adequate ventilation.
General hygeine considerations	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Color	Medium Cyan
Odor	Not significant.

Odor threshold	Not available.
Physical state	Liquid.
Form	Aqueous solution.
pH	7 - 9
Melting point	< 32 °F (< 0 °C)
Freezing point	Not available.
Boiling point	> 212 °F (> 100 °C)
Flash point	Not flammable
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	< 115 g/L

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Avoid high temperatures.
Hazardous decomposition products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Carcinogenicity

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

Triethanolamine (102-71-6)	Inadequate data.

12. Ecological Information

Ecotoxicity	None known.
Aquatic toxicity	No information available.
Persistence and degradability	Not available.

13. Disposal Considerations

Disposal instructions	Dispose of in compliance with federal, state, and local regulations.

14. Transport Information

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration

Isothiazolone DF35 (26172-55-4)	1.0 % One-Time Export Notification only.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	No

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Diethylene glycol (111-46-6)	Listed.
Triethanolamine (102-71-6)	Listed.

16. Other Information

HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
Issue date	Mar 13 2009 12:03PM
Revision	2
Replaces sheet dated	Mar 13 2009 9:07AM
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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds
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